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(54) **COMPOSITION FOR THE TREATMENT OF
EAR INFECTIONS AND METHOD**

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(58) **Field of Classification Search**

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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,569,935 A * 2/1986 Rosenberg et al. 514/254.07
5,753,269 A 5/1998 Groh et al.
5,837,713 A * 11/1998 Gleich 514/312
6,126,920 A * 10/2000 Jones et al. 424/45

FOREIGN PATENT DOCUMENTS

EP 0179583 A1 4/1986

OTHER PUBLICATIONS

Lipsky et al. Int. J. Dermatol., 1992, vol. 31, Iss. 6, abstract.*
Erowid Alcohol Vault. Alcohol Chemistry, Published online Nov.
1999, pp. 1-2.*
Freedom of Information Summary, ANADA 200-287, GBC Ointment,
Phoenix Scientific, Inc., Mar. 28, 2003, pp. 1-4.
Freedom of Information summary, NADA 141-177,
MOMETAMAX Otic Suspension for dogs, Schering-Plough Animal
Health, Publication date not known, but published prior to Apr.
2003, 13 pages.
“Medical Treatment of Otitis Externa”, Stephen White, Publication
date now known, but published before Apr. 2003, 6 pages.
Lecture Notes, Jan. 2003 Dermatology, Daniel O. Morris, D.V.M.,
District of Columbia Academy of Veterinary Medicine, “Otitis
Externa and Media: Diagnosis and management in the age of
antibiotic resistance”, Jan. 2003, 7 pages.
Freedom of Information summary, NADA 140-810, Feb. 3, 1989,
Biomed laboratories, Panavet Ointment, 4 pages.
Product labeling for Otomax Otic Antibiotic-Steroid, NADA 140-
896, Schering-Plough, Publication date not known, but published
before Apr. 2003, 3 pages.
Baytril Otic, product information by Bayer Health Care, Animal
Health Division, original publication date not known, but published
prior to Apr. 2003, 3 pages.
Jan. 2001 Press Release for Baytril Otic, dated Jan. 2001, 2 pages.
Baytril Otic product labeling, Bayer health Care LLC, Animal
Health Division, publication date not known, but originally published
prior to Apr. 2003, 4 pages.
“Introduction to Pharmaceutical Dosage Forms”, Howard C. Ansel,
Lea & Febiger, 4th Edition, 1985, pp. 337-341.
“The Science and Practice of Pharmacy”, Troy, D.B., Ed.
Remington, Lippincott Williams & Wilkins, 21st Edition, 2006, pp.
1080-1082.

* cited by examiner

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(57) **ABSTRACT**

A composition for treating ear infections in animals includes
an antifungal agent, an antibiotic agent, a steroidal anti-
inflammatory agent, and an acid dissolved to form a liquid.
The acid aids in keeping the steroidal anti-inflammatory
agent in solution, and enhances the bactericidal effect of the
composition. The method of preparing such composition
includes dissolving the antifungal agent, steroidal anti-
inflammatory agent, and acid in dehydrated alcohol, dis-
solving the antibiotic agent in propylene glycol, combining
the two solutions together, heating the combination and then
cooling the composition. Several drops of the composition
are applied at least twice per day to the affected area of the
animal's ear.

13 Claims, No Drawings